

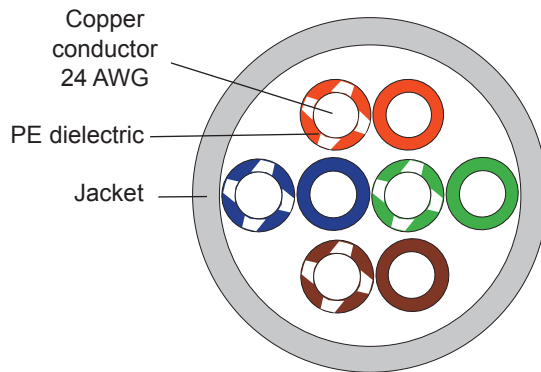
eXtreme™ Cat 5e U/UTP Cable, CM Rated

PART NUMBERS

Description	Part No.
eXtreme Cat 5e U/UTP Cable, CM Rated, white, 305-meter reel in box	104-UTP5M-MWB
eXtreme Cat 5e U/UTP Cable, CM Rated, red, 305-meter reel in box	105-UTP5M-MRB
eXtreme Cat 5e U/UTP Cable, CM Rated, yellow, 305-meter reel in box	107-UTP5M-MYB

APPLICATION

IEEE 802.3: Gigabit Ethernet; 1000BASE-T; 100BASE-T; 10BASE-T



STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D Cat 5e
- ISO/IEC 11801-1 Class D
- EN 50173-1 Class EA
- IEC 61156-5
- RoHS Compliant
- IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af, Type 2 (30 Watts) formerly 802.3at, Type 3 (60 Watts)
- Cisco UPoE (60 Watts)

FIRE RATING

UL 444 CM

COUNTRY OF ORIGIN

Taiwan

Construction

Conductor	Bare copper wire	24 AWG
Insulation	Polyethylene	Ø 0.91 mm
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: Blue+White/Blue 2: Orange+White/Orange 3: Green+White/Green 4: Brown+White/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CM	
Outer diameter	Ø 5.2 mm (.205")	

TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 60° C during installation: 0° C ~ 50° C
Electrical Properties (-20° C ± 5° C)	
DC resistance	Max. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km at 20° C
Mutual capacitance	Nom. 5.1 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100 ± 15) Ω
Nominal velocity of propagation	67%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	45 ns/100 m (Max.)

Transmission characteristics acc. to ANSI/TIA-568.2-D Cat 5e (20° C)							
Freq. (MHz)	Attenuation (dB) max.	NEXT (dB) min.	PS-NEXT (dB) min.	ACRF (dB) min.	PS-ACRF (dB) min.	Return Loss (dB) min.	Propagation Delay (ns/100m) max.
1	2.0	65.3	62.3	63.8	60.8	20.0	570.0
4	4.1	56.3	53.3	51.7	48.7	23.0	552.0
10	6.5	50.3	47.3	43.8	40.8	25.0	545.4
16	8.2	47.3	44.3	39.7	36.7	25.0	543.0
20	9.3	45.8	42.8	37.7	34.7	25.0	542.0
31.25	11.7	42.9	39.9	33.9	30.9	23.6	540.4
62.5	17.0	38.4	35.4	27.8	24.8	21.5	538.6
100	22.0	35.3	32.3	23.8	20.8	20.1	537.6